Application No. 10/539,192

Attorney Docket No. 09138.0074-00

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions and listings of claims in the

application:

1-317. Canceled.

318. (Currently Amended) A method for performing operations ever a-

network on at least one stainer connected in a LAN stainer network, comprising:

establishing a network connection with the at least one stainer in the LAN stainer

<u>network;</u>

sending commands to the at least one stainer over the network connection; and

receiving responses corresponding to commands-sent to the at least one stainer-

over the network connection,

wherein operations are performed in response to instructions provided by at least

one controller,

wherein the stainer network includes more than one controller located within the

stainer network, and

wherein the stainer network connects to controllers located outside the stainer

network via a bridge.

319. (Currently Amended) The method of claim 318, wherein the stainer

network further includes a server and a plurality of stainers including the at least one

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stainer, and wherein the at least one stainer is a client of the server method is executedon a server with individual stainers in the plurality of stainers as clients.

- 320. (Currently Amended) The method of claim 319, wherein the server includes a centralized database comprising configuration information for the individual-client at least one stainer stainers.
- 321. (Currently Amended) The method of claim 318, wherein sending commands to the at least one stainer in the LAN further comprises one or more of the steps of:

relaying commands to the at least one stainer; and

- relaying commands and queries to a database associated with the plurality of stainers, wherein the database comprises information including status information on about stainers, slides, consumables, and treatment protocols associated with the plurality of stainers.
- 322. (Currently Amended) The method of claim 321, <u>further comprising</u>

  <u>relaying the</u> wherein commands <u>or commands</u> and queries are relayed to the database associated with the plurality of stainers from a laboratory information system.
- 323. (Currently Amended) The method of claim 321, wherein the commands and queries to the database associated with the plurality of stainers further

comprise database maintenance operations including purging, compaction, and database back-up operations.

- 324. (Currently Amended) The method of claim 321, <u>further comprising</u> relaying commands or commands and <u>queries</u> to a different stainer when the at least one stainer malfunctions wherein the method may be performed relative to other stainers in the LAN, in case of malfunction of a stainer.
- 325. (Currently Amended) The method of claim 321, wherein <u>sending</u> <u>commands further comprises</u> the actions are performed using a software tool that also provides a defined interface through which operations may be performed on the at least one stainer ever the network.
- 326. (Currently Amended)

  The method of claim 318, wherein receiving responses-corresponding to commands sent to the at least one stainer over the LAN further comprises one or more of the steps of:

receiving responses to queries to a database associated with the plurality of stainers, wherein the database comprises information including status information about stainers, slides, consumables, and treatment protocols associated with the plurality of stainers; and

receiving responses to commands from the at least one stainer.

327. (Currently Amended) The method of claim 326, where the responses are <u>further</u> returned from the database to a laboratory information system in response to queries relayed to the database from the laboratory information system.

328. (Currently Amended) The method of claim 327, wherein the communication between the at least one stainer and with the laboratory information system is facilitated by a network the bridge.

329. (Currently Amended)

The method of claim 325, wherein where the software tool is a web browser.

330. (Currently Amended) The method of claim 318, wherein the operations performed over the network on the at least one stainer include further comprising running diagnostic tests and retrieving diagnostic information.

331. (Currently Amended) The method of claim 330, <u>further comprising</u>
<u>running</u> wherein the diagnostic tests are used to actively exercise components on the at least one stainer.

332. (Currently Amended) The method of claim 330, <u>further comprising</u>
wherein the diagnostic tests are used to troubleshoot troubleshooting the stainer.

333. (Currently Amended) The method of claim 330, <u>further comprising</u> wherein an operator is electronically <u>notifying an operator</u> notified about the results of the diagnostic tests.

- 334. (Currently Amended) The method of claim 330, wherein the <u>an</u> operator operating the at least one controller is remotely located.
- 335. (Currently Amended) The method of claim 318, <u>further comprising</u> wherein <u>performing</u> the operations performed over the network on the at least one stainer <u>may be performed</u> while <u>operating</u> other stainers in the LAN <u>stainer network</u> are operating and, <u>wherein the operations of the other stainers are not</u> without materially <u>affected by the operations of the at least one stainer</u> affecting the operations of the other stainers in the LAN.
- 336. (Currently Amended)

  The method of claim 318, <u>further comprising</u>
  wherein the operations performed over the network on the at least one stainer include
  monitoring the status of slides being processed by the at least one stainer apparatus.
- 337. (Currently Amended) The method of claim 318, <u>further comprising</u> wherein the operations performed over the network on the at least one stainer include obtaining a real-time estimate of the completion time of <del>any of the slides</del> <u>a slide</u> being processed by the at least one stainer.

338. (Currently Amended)

The method of claim 318, <u>further comprising</u>

<u>encrypting commands and responses</u> wherein data sent over the network connection isencrypted.

339. (New) A method for performing operations over a network on at least one stainer connected in a LAN stainer network, comprising:

establishing a network connection with the at least one stainer in the LAN stainer network:

sending commands to the at least one stainer over the network connection and performing one or more of the steps of:

relaying commands to the at least one stainer, and

relaying commands and queries to a database associated with the plurality of stainers from a laboratory information system, wherein the database comprises information including status information on stainers, slides, consumables, and treatment protocols associated with the plurality of stainers; and

receiving responses corresponding to commands sent to the at least one stainer over the network connection.

340. (New) The method of claim 339, wherein the stainer network further includes a server and a plurality of stainers including the at least one stainer, and wherein the at least one stainer is a client of the server.

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341. (New) The method of claim 340, wherein the server includes a centralized

database comprising configuration information for the at least one stainer.

342. (New) The method of claim 339, wherein the commands and gueries

further comprise database maintenance operations including purging, compaction, and

database back-up operations.

343. (New) The method of claim 339, further comprising relaying commands or

commands and gueries to a different stainer when the at least one stainer malfunctions.

344. (New) The method of claim 339, wherein sending commands further

comprises using a software tool that also provides a defined interface through which

operations may be performed on the at least one stainer.

345. (New) The method of claim 339, wherein receiving responses further

comprises one or more of the steps of:

receiving responses to gueries to a database associated with the plurality of

stainers, wherein the database comprises information including status information about

stainers, slides, consumables, and treatment protocols associated with the plurality of

stainers; and

receiving responses to commands from the at least one stainer.

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- 346. (New) The method of claim 345, where the responses are further returned from the database to a laboratory information system.
- 347. (New) The method of claim 346, wherein communication between the at least one stainer and the laboratory information system is facilitated by the bridge.
- 348. (New) The method of claim 344, wherein the software tool is a web browser
- 349. (New) The method of claim 339, further comprising running diagnostic tests and retrieving diagnostic information.
- 350. (New) The method of claim 349, further comprising running diagnostic tests to actively exercise components on the at least one stainer.
- 351. (New) The method of claim 349, further comprising troubleshooting the stainer.
- 352. (New) The method of claim 349, further comprising electronically notifying an operator about the results of the diagnostic tests.
- 353. (New) The method of claim 349, wherein an operator operating the at least one controller is remotely located.

- 354. (New) The method of claim 339, further comprising performing the operations on the at least one stainer while operating other stainers in the stainer network, wherein the operations of the other stainers are not materially affected by the operations of the at least one stainer.
- 355. (New) The method of claim 339, further comprising monitoring the status of slides being processed by the at least one stainer.
- 356. (New) The method of claim 339, further comprising obtaining a real-time estimate of the completion time of a slide being processed by the at least one stainer.
- 357. (New) The method of claim 339, further comprising encrypting commands and responses sent over the network connection.